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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	ATTORNEY DOCKET NO. CONFIRMATION N	
09/439,225	11/12/1999	CARLOS SALDANHA	1162.007US1	1407	
21186 7	7590 07/17/2002				
SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A.			EXAMINER		
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MINNEAPOL	IS, MN 55402		HAVAN, THU THAO		
			ART UNIT	PAPER NUMBER	
			2672		
			DATE MAILED: 07/17/2002		

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No	о.	Applicant(s)	
	09/439,225		SALDANHA ET A	L.
Office Action Summary	Examiner		Art Unit	
	Thu-Thao Hav		2672	
The MAILING DATE of this communication a Period for Reply	ppears on the cov	er sheet with the co	orrespondence ad	dress
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a re - If NO period for reply is specified above, the maximum statutory perio - Failure to reply within the set or extended period for reply will, by statu - Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b). Status	1. 1.136(a). In no event, ho pply within the statutory n d will apply and will expirute, cause the application	wever, may a reply be tim ninimum of thirty (30) days e SIX (6) MONTHS from to to become ABANDONED	ely filed will be considered timely the mailing date of this co (35 U.S.C. § 133).	
1)⊠ Responsive to communication(s) filed on <u>rc</u>	e 4/17/02 .			
2a) ☐ This action is FINAL . 2b) ☑ ⁻¹	This action is non-	-final.		
3) Since this application is in condition for allocal closed in accordance with the practice under Disposition of Claims				e merits is
4)⊠ Claim(s) <u>1-45</u> is/are pending in the applicati	on.			
4a) Of the above claim(s) is/are withdo	rawn from conside	eration.		
5) Claim(s) is/are allowed.				
6)⊠ Claim(s) <u>1-45</u> is/are rejected.				
7) Claim(s) is/are objected to.				
8) Claim(s) are subject to restriction and	l/or election requi	ement.		
Application Papers				
9) The specification is objected to by the Examir				
10) The drawing(s) filed on is/are: a) acc				
Applicant may not request that any objection to				
11) The proposed drawing correction filed on			ved by the Examin	er.
If approved, corrected drawings are required in	• •	action.		
12) The oath or declaration is objected to by the E	=xaminer.			
Priority under 35 U.S.C. §§ 119 and 120				
13) Acknowledgment is made of a claim for forei	ign priority under	35 U.S.C. § 119(a))-(d) or (f).	
a) ☐ All b) ☐ Some * c) ☐ None of:				
1. Certified copies of the priority docume				
2. Certified copies of the priority docume		, ,		
3. Copies of the certified copies of the present of the present of the international Expension of the present of the p	Bureau (PCT Rule	: 17.2(a)).		Stage
14) Acknowledgment is made of a claim for dome	stic priority under	35 U.S.C. § 119(e) (to a provisiona	application).
a) ☐ The translation of the foreign language p 15)☐ Acknowledgment is made of a claim for dome	• •			
Attachment(s)				
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 	4) [5) [) <u>14, 15</u> . 6) [(PTO-413) Paper No atent Application (PT	
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DETAILED ACTION

Drawings

1. This application has been filed with informal drawings which are acceptable for examination purposes only. Formal drawings will be required when the application is allowed.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-45 are rejected under 35 U.S.C. 103(a) as being unpatentable over Rom (US patent no. 6,307,568) in view of non-patent literature Volino, P., et al., ("An Evolving System for Simulating Clothes on Virtual Actors", Computer Graphics in Textiles and Apparel, 42-51, (September 1996)) and further in view of Sakaguchi (CA patent no. 2,259,788).

Re claims 1, 16, 19, 29, 32, 34, 38, and 44, the prior art Rom had:

A.) Simulating draping and collision of the garment with the mannequin within the simulation scene to generate a three-dimensional rendering frame of the mannequin wearing the garment (col. 3, line 63 to col. 4, line 11; col. 5, lines 3-13; abstract). In other words, Rom teaches a virtual dressing method for displaying garments were the garments were being draped and cling (i.e. collision) over the body of the image of a user.

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B.) Constraining portions of the garment to reside within or outside of particular shells defined around the mannequin in the rendering frame (col. 2, lines 34-42; fig. 2). In other words, Rom determines garment adjustment points of the garment spatial configuration. The determining points are the particular shells that defined the spatial configuration of the image.

C.) Generating rendering frames containing mannequin or garment objects as defined by selected parameter values by shape blending corresponding objects of previously generated rendering frames (col. 7-11; col. 13, lines 55-67; col. 14, lines 1-45; fig. 4-11, 15, and 18). In other words, Rom

Rom fails to specifically disclose a method for producing an image of a computer-simulated mannequin wearing a garment as defined by selected mannequin and garment parameter values, comprising of generating objects corresponding to a representative mannequin and a garment placed in a simulation scene within a three-dimensional modeling environment.

However, Volino specifically teaches a method for producing an image of a computer-simulated mannequin wearing a garment as defined by selected mannequin and garment parameter values, comprising of generating objects corresponding to a representative mannequin and a garment placed in a simulation scene within a three-dimensional modeling environment (pages 42, 44, and 48). In other words, Volino teaches computer simulating clothes on a mannequin to visualize collisions and draping of the garment (page 42). The simulation software of Volino consisting of data structure that stores all object information which computes all objects in the structure (page 44). Furthermore, the 3D simulation process constructs the garment design (page 48).

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Therefore, taking the combined teaching of Rom and Volino as a whole, it would have been obvious to combine the teaching of Volino to the system of Rom because doing so would have enabled simulating clothes on a mannequin using computer virtual dressing as noted in Volino (pages 42, 44, and 48).

Rom and Volino fail to specifically disclose generating rendering frames containing mannequin or garment objects as defined by selected parameter values by shape blending corresponding objects of previously generated rendering frames.

However, Sakaguchi specifically teaches generating rendering frames containing mannequin or garment objects as defined by selected parameter values by shape blending corresponding objects of previously generated rendering frames (page 31-second paragraph to page 33). In other words, Sakaguchi using the index (i.e. parameter values) to shape the garment. The frame of the garment is generated by clicking the mouse to bring the cursor K to the input window for the shape of the garment.

Therefore, taking the combined teaching of Rom and Volino as a whole, it would have been obvious to combine the teaching of Sakaguchi to the system of Rom and Volino because doing so would have enabled generating the shape of the garment for different users with different model of the garment as noted in Sakaguchi (page 31-second paragraph to page 33 and page 35; page 66; fig. 23-25).

Re claims 2, 35, and 43, Rom discloses the rendered image is used to form a visual image on a computer display device (col. 6, lines 13-19; fig. 2). In other words, Rom teaches the final output of the image is displaying on the GUI.

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Re claims 5, 23, 42 and 45, Rom discloses the two-dimensional images are rendered from a rendering frame using a plurality of camera positions (col. 6, lines 33-45). In other words, Rom teaches a digital camera that captures the user's position then incorporated into the computer to render the user's image for the particular garment.

Re claims 10-12 and 39, Sakaguchi discloses the separate rendering frames are combined into a composite two-dimensional image using Z-coordinates of the objects (page 66 to 68).

Sakaguchi teaches calculating different frames with different indices or points for the shape of garment.

Re claims 14-15, Sakaguchi discloses a network and a processor-executable instructions (fig. 13). In figure 13, Sakaguchi uses the network system by using the Internet and Intranet for his system. Furthermore, the application consisting of an executable instruction.

Re claims 3-4, 6-9, 13, 17-18, 20-22, 24-28, 30-31, 33, 36, 40-41, the limitations of claims 3-4, 6-9, 13, 17-18, 20-22, 24-28, 30-31, 33, 36, 40-41 are analyzed as discussed with respect to claims 1, 16, 19, 29, 32, 34, 38, and 44 above.

Inquiries

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thu-Thao Havan whose telephone number is (703) 308-7062. The examiner can normally be reached on Monday to Thursday from 9:00-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Razavi can be reached on (703) 305-4713.

Any response to this action should be mailed to:

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Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to:

(703) 872-9314 (for Technology Center 2600 only)

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.

Thu-Thao Havan Art Unit: 2672 July 10, 2002

> MICHAEL RAZAVI UPERVISORY PATENT CYAMINER TOWNOLOGY CENTER 2019